

## ABSTRACT

1 A constant torque split is maintained between a pair of drive  
2 motors for the photoreceptor belt of an electrophotographic  
3 printing machine. By varying the voltage applied to the motors  
4 according to the speed of the photoreceptor belt, the torque  
5 applied by each motor can be continuously balanced at a  
6 predetermined relationship to apply a constant torque and the  
7 desired speed may be accurately maintained. To better refine the  
8 implementation, the relationship include a ratio<sup>MSH CAN</sup> and an offset  
9 which may be applied, to one of the motors. Furthermore, this  
10 offset is ramped up during motor acceleration to optimize motion  
11 quality and system performance.